

## Objectives:

TSW review/demonstrate mastery of the 5<sup>th</sup> grade science objectives.

TSW develop and communicate solutions using various materials and tools.

TSW analyze solutions for validity.

## Before Your Challenge:

- ① Review any content related to the target objectives with your class. All questions will be related to one or more of these objectives.
- ① Gather a few science jokes to share at the end of the conference if time allows.
- ① Gather the resources the students will need for the challenge. In this challenge the students will need science textbooks, access to the Internet, and a graduated cylinder. Other books and resources that relate to the target objectives will also be useful and can be used by the students.
- ① (LCISD) A video conferencing cart will be brought to your room approximately a week before. It will need to stay on until after the challenge.

## Agenda for the Challenge:

- 1) The coordinator will introduce each class. Please have a representative from your class ready to state the teacher's name for that class and the school.
- 2) After each class has introduced themselves, the coordinator will review the rules for the challenge.
- 3) If there are no questions, we will begin.
  - A question or scenario (based on all levels of Bloom's Taxonomy) will be shared with each class via a PowerPoint slide.  
**Example:** What type of energy is transformed into chemical energy during photosynthesis?
  - Both classes will mute their microphone(s) and have 3-5 minutes to come up with a class consensus response using the materials suggested. Once the time is up, both sides will present their response to the other class and wait for confirmation.
- 4) Each class will have the opportunity to share a science related joke.

## During Your Challenge:

- ① Have your students pre-assigned to small cooperative groups. You may want to group them based on the resources that you have gathered (internet group(s), textbook group(s), etc.) and allow them to rotate between questions.
- ① Problems will be presented via a PowerPoint by the facilitator at one location.
- ① After each problem is presented, please mute your microphone and allow 3-5 minutes to develop an answer. Students may use ANY resource that you allow to develop an answer to the question.
- ① Small groups work on the solution; then compare and discuss answers as a class.
- ① PLEASE play fair. This should be an opportunity for students to use and display their skills. Teachers should ask leading questions if their students need direction, but, as hard as it may be, don't help them!
- ① After the time limit (or before if both groups are ready) reply with the answer to your challenge question. It is really great to give your challengers a round of applause for correct answers.
- ① Keeping score is optional. Having fun is mandatory.

# Science Seekers 2008

October Smith  
Distance Learning Coordinator  
832-223-0207  
[osmith@lcisd.org](mailto:osmith@lcisd.org)

- 🌐 Remember that the purpose of this activity is for the students to review and demonstrate mastery of the targeted science objectives, and to develop, communicate, and analyze solutions.

## **After Your Challenge:**

- 🌐 Congratulate your students on a job well done.
- 🌐 Let me know if you have any questions/concerns/comments. I would appreciate any ideas or suggestions you may have that would help make Science Seekers more successful for the students.